## Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Original) A ferroelectric film including a perovskite ferroelectric or a bismuth layer-structured ferroelectric shown by ABO<sub>3</sub> or  $(Bi_2O_2)^{2+}(A_{m-1}B_mO_{3m+1})^{2-}$  (wherein A represents at least one ion selected from the group consisting of Li<sup>+</sup>, Na<sup>+</sup>, K<sup>+</sup>, Pb<sup>2+</sup>, Ca<sup>2+</sup>, Sr<sup>2+</sup>, Ba<sup>2+</sup>, Bi<sup>3+</sup> and La<sup>3+</sup>, B represents at least one ion selected from the group consisting of Fe<sup>3+</sup>, Ti<sup>4+</sup>, Zr<sup>4+</sup>, Nb<sup>5+</sup>, Ta<sup>5+</sup>, W<sup>6+</sup> and Mo<sup>6+</sup>, and m is a natural number),

wherein at least four-fold coordinated Si<sup>4+</sup> or Ge<sup>4+</sup> is included in the A site ion.

2. (Original) A ferroelectric film including a perovskite ferroelectric or a bismuth layer-structured ferroelectric shown by ABO<sub>3</sub> or (Bi<sub>2</sub>O<sub>2</sub>)<sup>2+</sup>(A<sub>m-1</sub>B<sub>m</sub>O<sub>3m+1</sub>)<sup>2-</sup> (wherein A represents at least one ion selected from the group consisting of Li<sup>+</sup>, Na<sup>+</sup>, K<sup>+</sup>, Pb<sup>2+</sup>, Ca<sup>2+</sup>, Sr<sup>2+</sup>, Ba<sup>2+</sup>, Bi<sup>3+</sup> and La<sup>3+</sup>, B represents at least one ion selected from the group consisting of Fe<sup>3+</sup>, Ti<sup>4+</sup>, Zr<sup>4+</sup>, Nb<sup>5+</sup>, Ta<sup>5+</sup>, W<sup>6+</sup> and Mo<sup>6+</sup>, and m is a natural number),

wherein at least four-fold coordinated Si<sup>4+</sup> or Ge<sup>4+</sup> is included in the A site ion; and wherein the ferroelectric film is a solid solution with a dielectric shown by X<sub>2</sub>SiO<sub>5</sub>, X<sub>4</sub>Si<sub>3</sub>O<sub>12</sub>, X<sub>2</sub>GeO<sub>5</sub> or X<sub>4</sub>Ge<sub>3</sub>O<sub>12</sub> (wherein X represents Bi<sup>3+</sup>, Fe<sup>3+</sup>, Sc<sup>3+</sup>, Y<sup>3+</sup>, La<sup>3+</sup>, Ce<sup>3+</sup>, Pr<sup>3+</sup>, Nd<sup>3+</sup>, Pm<sup>3+</sup>, Sm<sup>3+</sup>, Eu<sup>3+</sup>, Gd<sup>3+</sup>, Tb<sup>3+</sup>, Dy<sup>3+</sup>, Ho<sup>3+</sup>, Er<sup>3+</sup>, Tm<sup>3+</sup>, Yb<sup>3+</sup> or Lu<sup>3+</sup>).

3. (Original) A ferroelectric film including a perovskite ferroelectric or a bismuth layer-structured ferroelectric shown by ABO<sub>3</sub> or  $(Bi_2O_2)^{2+}(A_{m-1}B_mO_{3m+1})^{2-}$  (wherein A represents at least one ion selected from the group consisting of Li<sup>+</sup>, Na<sup>+</sup>, K<sup>+</sup>, Pb<sup>2+</sup>, Ca<sup>2+</sup>, Sr<sup>2+</sup>, Ba<sup>2+</sup>, Bi<sup>3+</sup>

and La<sup>3+</sup>, B represents at least one ion selected from the group consisting of Fe<sup>3+</sup>, Ti<sup>4+</sup>, Zr<sup>4+</sup>, Nb<sup>5+</sup>, Ta<sup>5+</sup>, W<sup>6+</sup> and Mo<sup>6+</sup>, and m is a natural number),

wherein at least four-fold coordinated Si<sup>4+</sup> or Ge<sup>4+</sup> is included in the A site ion; and wherein the ferroelectric film includes at least one transition element in an amount of 5 to 40 mol% in total, the transition element having the maximum positive valence which is +1 or more greater than the valence of the A site ion of the ABO<sub>3</sub> or (Bi<sub>2</sub>O<sub>2</sub>)<sup>2+</sup>(A<sub>m</sub>-1B<sub>m</sub>O<sub>3m+1</sub>)<sup>2-</sup>.

4. (Original) A ferroelectric film including a perovskite ferroelectric or a bismuth layer-structured ferroelectric shown by ABO<sub>3</sub> or (Bi<sub>2</sub>O<sub>2</sub>)<sup>2+</sup>(A<sub>m-1</sub>B<sub>m</sub>O<sub>3m+1</sub>)<sup>2-</sup> (wherein A represents at least one ion selected from the group consisting of Li<sup>+</sup>, Na<sup>+</sup>, K<sup>+</sup>, Pb<sup>2+</sup>, Ca<sup>2+</sup>, Sr<sup>2+</sup>, Ba<sup>2+</sup>, Bi<sup>3+</sup> and La<sup>3+</sup>, B represents at least one ion selected from the group consisting of Fe<sup>3+</sup>, Ti<sup>4+</sup>, Zr<sup>4+</sup>, Nb<sup>5+</sup>, Ta<sup>5+</sup>, W<sup>6+</sup> and Mo<sup>6+</sup>, and m is a natural number),

wherein at least four-fold coordinated Si<sup>4+</sup> or Ge<sup>4+</sup> is included in the A site ion; and wherein the ferroelectric film includes at least one transition element in an amount of 5 to 40 mol% in total, the transition element having the maximum positive valence which is +1 or more greater than the valence of the B site ion of the ABO<sub>3</sub> or (Bi<sub>2</sub>O<sub>2</sub>)<sup>2+</sup>(A<sub>m-1</sub>B<sub>m</sub>O<sub>3m+1</sub>)<sup>2-</sup>

5. (Original) A ferroelectric film including a perovskite ferroelectric or a bismuth layer-structured ferroelectric shown by ABO<sub>3</sub> or (Bi<sub>2</sub>O<sub>2</sub>)<sup>2+</sup>(A<sub>m-1</sub>B<sub>m</sub>O<sub>3m+1</sub>)<sup>2-</sup> (wherein A represents at least one ion selected from the group consisting of Li<sup>+</sup>, Na<sup>+</sup>, K<sup>+</sup>, Pb<sup>2+</sup>, Ca<sup>2+</sup>, Sr<sup>2+</sup>, Ba<sup>2+</sup>, Bi<sup>3+</sup> and La<sup>3+</sup>, B represents at least one ion selected from the group consisting of Fe<sup>3+</sup>, Ti<sup>4+</sup>, Zr<sup>4+</sup>, Nb<sup>5+</sup>, Ta<sup>5+</sup>, W<sup>6+</sup> and Mo<sup>6+</sup>, and m is a natural number),

wherein at least four-fold coordinated Si<sup>4+</sup> or Ge<sup>4+</sup> is included in the A site ion;

wherein the ferroelectric film includes at least one transition element having the maximum positive valence which is +1 or more greater than the valence of the B site ion of the ABO<sub>3</sub> or  $(Bi_2O_2)^{2+}(A_{m-1}B_mO_{3m+1})^{2-}$ ;

wherein the ferroelectric film includes at least one transition element having the maximum positive valence which is +1 or more greater than the valence of the A site ion of the ABO<sub>3</sub> or  $(Bi_2O_2)^{2+}(A_{m-1}B_mO_{3m+1})^{2-}$ ; and

wherein the transition elements are included in an amount of 5 to 40 mol% in the A and B sites in total.

6. (Original) A ferroelectric film including a perovskite ferroelectric or a bismuth layer-structured ferroelectric shown by ABO<sub>3</sub> or (Bi<sub>2</sub>O<sub>2</sub>)<sup>2+</sup>(A<sub>m-1</sub>B<sub>m</sub>O<sub>3m+1</sub>)<sup>2-</sup> (wherein A represents at least one ion selected from the group consisting of Li<sup>+</sup>, Na<sup>+</sup>, K<sup>+</sup>, Pb<sup>2+</sup>, Ca<sup>2+</sup>, Sr<sup>2+</sup>, Ba<sup>2+</sup>, Bi<sup>3+</sup> and La<sup>3+</sup>, B represents at least one ion selected from the group consisting of Fe<sup>3+</sup>, Ti<sup>4+</sup>, Zr<sup>4+</sup>, Nb<sup>5+</sup>, Ta<sup>5+</sup>, W<sup>6+</sup> and Mo<sup>6+</sup>, and m is a natural number),

wherein at least four-fold coordinated Si<sup>4+</sup> or Ge<sup>4+</sup> is included in the A site ion; wherein the ferroelectric film is a solid solution with a dielectric shown by X<sub>2</sub>SiO<sub>5</sub>, X<sub>4</sub>Si<sub>3</sub>O<sub>12</sub>, X<sub>2</sub>GeO<sub>5</sub> or X<sub>4</sub>Ge<sub>3</sub>O<sub>12</sub> (wherein X represents Bi<sup>3+</sup>, Fe<sup>3+</sup>, Sc<sup>3+</sup>, Y<sup>3+</sup>, La<sup>3+</sup>, Ce<sup>3+</sup>, Pr<sup>3+</sup>, Nd<sup>3+</sup>, Pm<sup>3+</sup>, Sm<sup>3+</sup>, Eu<sup>3+</sup>, Gd<sup>3+</sup>, Tb<sup>3+</sup>, Dy<sup>3+</sup>, Ho<sup>3+</sup>, Er<sup>3+</sup>, Tm<sup>3+</sup>, Yb<sup>3+</sup> or Lu<sup>3+</sup>); and

wherein the ferroelectric film includes at least one transition element in an amount of 5 to 40 mol% in total, the transition element having the maximum positive valence which is +1 or more greater than the valence of the A site ion of the ABO<sub>3</sub> or  $(Bi_2O_2)^{2+}(A_m-1B_mO_{3m+1})^{2-}$ .

7. (Original) A ferroelectric film including a perovskite ferroelectric or a bismuth layerstructured ferroelectric shown by ABO<sub>3</sub> or  $(Bi_2O_2)^{2+}(A_{m-1}B_mO_{3m+1})^{2-}$  (wherein A represents at least one ion selected from the group consisting of Li<sup>+</sup>, Na<sup>+</sup>, K<sup>+</sup>, Pb<sup>2+</sup>, Ca<sup>2+</sup>, Sr<sup>2+</sup>, Ba<sup>2+</sup>, Bi<sup>3+</sup> and La<sup>3+</sup>, B represents at least one ion selected from the group consisting of Fe<sup>3+</sup>, Ti<sup>4+</sup>, Zr<sup>4+</sup>, Nb<sup>5+</sup>, Ta<sup>5+</sup>, W<sup>6+</sup> and Mo<sup>6+</sup>, and m is a natural number),

wherein at least four-fold coordinated Si<sup>4+</sup> or Ge<sup>4+</sup> is included in the A site ion; wherein the ferroelectric film is a solid solution with a dielectric shown by X<sub>2</sub>SiO<sub>5</sub>, X<sub>4</sub>Si<sub>3</sub>O<sub>12</sub>, X<sub>2</sub>GeO<sub>5</sub> or X<sub>4</sub>Ge<sub>3</sub>O<sub>12</sub> (wherein X represents Bi<sup>3+</sup>, Fe<sup>3+</sup>, Sc<sup>3+</sup>, Y<sup>3+</sup>, La<sup>3+</sup>, Ce<sup>3+</sup>, Pr<sup>3+</sup>, Nd<sup>3+</sup>, Pm<sup>3+</sup>, Sm<sup>3+</sup>, Eu<sup>3+</sup>, Gd<sup>3+</sup>, Tb<sup>3+</sup>, Dy<sup>3+</sup>, Ho<sup>3+</sup>, Er<sup>3+</sup>, Tm<sup>3+</sup>, Yb<sup>3+</sup> or Lu<sup>3+</sup>); and

wherein the ferroelectric film includes at least one transition element in an amount of 5 to 40 mol% in total, the transition element having the maximum positive valence which is +1 or more greater than the valence of the B site ion of the ABO<sub>3</sub> or  $(Bi_2O_2)^{2+}(A_{m-1}B_mO_{3m+1})^{2-}$ 

8. (Original) A ferroelectric film including a perovskite ferroelectric or a bismuth layer-structured ferroelectric shown by ABO<sub>3</sub> or (Bi<sub>2</sub>O<sub>2</sub>)<sup>2+</sup>(A<sub>m-1</sub>B<sub>m</sub>O<sub>3m+1</sub>)<sup>2-</sup> (wherein A represents at least one ion selected from the group consisting of Li<sup>+</sup>, Na<sup>+</sup>, K<sup>+</sup>, Pb<sup>2+</sup>, Ca<sup>2+</sup>, Sr<sup>2+</sup>, Ba<sup>2+</sup>, Bi<sup>3+</sup> and La<sup>3+</sup>, B represents at least one ion selected from the group consisting of Fe<sup>3+</sup>, Ti<sup>4+</sup>, Zr<sup>4+</sup>, Nb<sup>5+</sup>, Ta<sup>5+</sup>, W<sup>6+</sup> and Mo<sup>6+</sup>, and m is a natural number),

wherein at least four-fold coordinated Si<sup>4+</sup> or Ge<sup>4+</sup> is included in the A site ion; wherein the ferroelectric film is a solid solution with a dielectric shown by X<sub>2</sub>SiO<sub>5</sub>, X<sub>4</sub>Si<sub>3</sub>O<sub>12</sub>, X<sub>2</sub>GeO<sub>5</sub> or X<sub>4</sub>Ge<sub>3</sub>O<sub>12</sub> (wherein X represents Bi<sup>3+</sup>, Fe<sup>3+</sup>, Sc<sup>3+</sup>, Y<sup>3+</sup>, La<sup>3+</sup>, Ce<sup>3+</sup>, Pr<sup>3+</sup>, Nd<sup>3+</sup>, Pm<sup>3+</sup>, Sm<sup>3+</sup>, Eu<sup>3+</sup>, Gd<sup>3+</sup>, Tb<sup>3+</sup>, Dy<sup>3+</sup>, Ho<sup>3+</sup>, Er<sup>3+</sup>, Tm<sup>3+</sup>, Yb<sup>3+</sup> or Lu<sup>3+</sup>);

wherein the ferroelectric film includes at least one transition element having the maximum positive valence which is +1 or more greater than the valence of the B site ion of the ABO<sub>3</sub> or  $(Bi_2O_2)^{2+}(A_{m-1}B_mO_{3m+1})^{2-}$ ;

wherein the ferroelectric film includes at least one transition element having the maximum positive valence which is +1 or more greater than the valence of the A site ion of the ABO<sub>3</sub> or  $(Bi_2O_2)^{2+}(A_{m-1}B_mO_{3m+1})^{2-}$ ; and

wherein the transition elements are included in an amount of 5 to 40 mol% in the A and B sites in total.

- 9. (Currently Amended) The ferroelectric film as defined in any of claims 1 to 8, claim 1, wherein the ferroelectric film includes Pb(Zr, Ti)O<sub>3</sub> which includes at least four-fold coordinated Si<sup>4+</sup> or Ge<sup>4+</sup> in the A site ion in an amount of 1% or more; and wherein at least one transition element having the maximum positive valence of +3 or more is included in the A site in an amount of 5 to 40 mol% in total.
- 10. (Currently Amended) The ferroelectric film as defined in any of claims 1 to 8, claim 1, wherein the ferroelectric film includes Pb(Zr, Ti)O<sub>3</sub> which includes at least four-fold coordinated Si<sup>4+</sup> or Ge<sup>4+</sup> in the A site ion in an amount of 1% or more; and wherein at least one transition element having the maximum positive valence of +5 or more is included in the B site in an amount of 5 to 40 mol% in total.
- 11. (Original) A ferroelectric film including Pb(Zr, Ti)O<sub>3</sub> which includes at least four-fold coordinated Si<sup>4+</sup> or Ge<sup>4+</sup> in the Pb site ion in an amount of 1% or more,

wherein at least one transition element having the maximum positive valence of +3 or more is included in the Pb site;

wherein at least one transition element having the maximum positive valence of +5 or more is included in the Zr or Ti site; and

wherein the transition elements are included in an mount of 5 to 40 mol% in the Pb and Zr or Ti sites in total.

12. (Original) A ferroelectric film including Pb(Zr, Ti)O<sub>3</sub> which includes at least four-fold coordinated Si<sup>4+</sup> or Ge<sup>4+</sup> in the Pb site ion in an amount of 1% or more,

wherein at least one of La and other lanthanoid series ions is included in the Pb site in an amount of 5 to 40 mol% in total.

13. (Original) A ferroelectric film including Pb(Zr, Ti)O<sub>3</sub> which includes at least four-fold coordinated Si<sup>4+</sup> or Ge<sup>4+</sup> in the Pb site ion in an amount of 1% or more,

wherein at least one of Nb, V and W is included in the Zr or Ti site in an amount of 5 to 40 mol% in total.

14. (Original) A ferroelectric film including Pb(Zr, Ti)O<sub>3</sub> which includes at least four-fold coordinated Si<sup>4+</sup> or Ge<sup>4+</sup> in the Pb site ion in an amount of 1% or more,

wherein at least one of La and other lanthanoid series ions is included in the Pb site, and at least one of Nb, V and W is included in the Zr or Ti site, in an amount of 5 to 40 mol% in the Pb and Zr or Ti sites in total.

15. (Currently Amended) The ferroelectric film as defined in any of claim 11 to 14, claim11, further including:

at least one of Nb, V and W in the Zr or Ti site in an amount twice the amount of Pb ion vacancy in the Pb site.

- 16. (Currently Amended) The ferroelectric film as defined in any of claims 11 to 14 claim11 is included (111)-oriented tetragonal crystals.
- 17. (Currently Amended) The ferroelectric film as defined in any of claims 11 to 14 claim

  11 is included (001)-oriented rhombohedral crystals.
- 18. (Original) A method of manufacturing a ferroelectric film including Pb(Zr,Ti)O<sub>3</sub>, the method comprising:

using a sol-gel solution for forming Pb(Zr,Ti)O<sub>3</sub> which includes at least four-fold coordinated Si<sup>4+</sup> or Ge<sup>4+</sup> in the Pb site ion in an amount of 1% or more.

19. (Original) A method of manufacturing a ferroelectric film including Pb(Zr,Ti)O<sub>3</sub>, the method comprising:

using a sol-gel solution for forming Pb(Zr,Ti)O<sub>3</sub> which includes at least four-fold coordinated Si<sup>4+</sup> or Ge<sup>4+</sup> in the Pb site ion in an amount of 1% or more,

wherein a mixed solution prepared by mixing a sol-gel solution for forming PbZrO<sub>3</sub> which includes at least four-fold coordinated Si<sup>4+</sup> or Ge<sup>4+</sup> in the Pb site ion in an amount of 1% or more with a sol-gel solution for forming PbTiO<sub>3</sub> which includes at least four-fold coordinated Si<sup>4+</sup> or Ge<sup>4+</sup> in the Pb site ion in an amount of 1% or more is used as the sol-gel solution for forming Pb(Zr,Ti)O<sub>3</sub>.

20. (Original) A method of manufacturing a ferroelectric film including Pb(Zr,Ti)O<sub>3</sub>, the method comprising:

using a sol-gel solution for forming Pb(Zr,Ti)O<sub>3</sub> in which the amount of Pb ranges from 90 to 120% of the stoichiometric composition of Pb(Zr,Ti)O<sub>3</sub>.

21. (Currently Amended) The ferroelectric film as defined in-any of claims 1 to 8, claim 1, wherein the ferroelectric film includes Bi<sub>4</sub>Ti<sub>3</sub>O<sub>12</sub> including at least four-fold coordinated Si<sup>4+</sup> or Ge<sup>4+</sup> in the A site ion in an amount of 1% or more; and

wherein at least one transition element having the maximum positive valence of +4 or more is included in the A site in an amount of 5 to 40 mol% in total.

22. (Currently Amended) The ferroelectric film as defined in-any of claims 1-to 8,

claim 1, wherein the ferroelectric film includes Bi<sub>4</sub>Ti<sub>3</sub>O<sub>12</sub> including at least four-fold

coordinated Si<sup>4+</sup> or Ge<sup>4+</sup> in the A site ion in an amount of 1% or more; and

wherein at least one transition element having the maximum positive valence of +5 or more is included in the B site in an amount of 5 to 40 mol% in total.

23. (Original) A ferroelectric film including Bi<sub>4</sub>Ti<sub>3</sub>O<sub>12</sub> including at least four-fold coordinated Si<sup>4+</sup> or Ge<sup>4+</sup> in the Bi site ion in an amount of 1% or more,

wherein at least one transition element having the maximum positive valence of +4 or more is included in the Bi site;

wherein at least one transition element having the maximum positive valence of +5 or more is included in the Ti site; and

wherein the transition elements are included in an amount of 5 to 40 mol% in the Bi and Ti sites in total.

24. (Original) A ferroelectric film including Bi<sub>4</sub>Ti<sub>3</sub>O<sub>12</sub> including at least four-fold coordinated Si<sup>4+</sup> or Ge<sup>4+</sup> in the Bi site ion in an amount of 1% or more,

wherein at least one of Nb, V and W is included in the Ti site in an amount of 5 to 40 mol% in total.

25. (Currently Amended) The ferroelectric film as defined in claim 23 or 24, claim 23, further including:

at least one of Nb, V, and W in the Ti site in an amount twice the amount of Bi ion vacancy in the Bi site.

- 26. (Currently Amended) The ferroelectric film as defined in claim 23 or 24 claim 23 is included (111), (110), and (117) oriented orthorhombic crystals.
- 27. (Original) A method of manufacturing a ferroelectric film including Bi<sub>4</sub>Ti<sub>3</sub>O<sub>12</sub>, the method comprising:

using a sol-gel solution for forming Bi<sub>4</sub>Ti<sub>3</sub>O<sub>12</sub> which includes at least four-fold coordinated Si<sup>4+</sup> or Ge<sup>4+</sup> in the Bi site ion in an amount of 1% or more.

28. (Original) A method of manufacturing a ferroelectric film including Bi<sub>4</sub>Ti<sub>3</sub>O<sub>12</sub>, the method comprising:

using a mixed solution prepared by mixing a solution prepared by mixing a sol-gel solution for forming  $Bi_2O_3$  with a sol-gel solution for forming  $TiO_2$  at a molar ratio of 2:3 with a sol-gel solution for forming a dielectric shown by  $X_2SiO_5$ ,  $X_4Si_3O_{12}$ ,  $X_2GeO_5$ , or  $X_4Ge_3O_{12}$  (wherein X represents  $Bi^{3+}$ ,  $Fe^{3+}$ ,  $Sc^{3+}$ ,  $Y^{3+}$ ,  $La^{3+}$ ,  $Ce^{3+}$ ,  $Pr^{3+}$ ,  $Nd^{3+}$ ,  $Pm^{3+}$ ,  $Sm^{3+}$ ,

Eu<sup>3+</sup>, Gd<sup>3+</sup>, Tb<sup>3+</sup>, Dy<sup>3+</sup>, Ho<sup>3+</sup>, Er<sup>3+</sup>, Tm<sup>3+</sup>, Yb<sup>3+</sup>, or Lu<sup>3+</sup>) so that Si<sup>4+</sup> or Ge<sup>4+</sup> is included in an amount of 1 mol% or more.

29. (Original) A method of manufacturing a ferroelectric film including Bi<sub>4</sub>Ti<sub>3</sub>O<sub>12</sub>, the method comprising:

using a sol-gel solution for forming  $Bi_4Ti_3O_{12}$  in which an excess amount of Bi ranges from 90 to 120% of the stoichiometric composition of  $Bi_4Ti_3O_{12}$ .

- 30. (Currently Amended) A ferroelectric memory comprising the ferroelectric film as defined in any of claims 1 to 17 and 21 to 26. claim 1.
- 31. (Currently Amended) A piezoelectric device comprising the ferroelectric film as defined in any of claims 1 to 7 and 21 to 26. claim 1.